

CLAIMS

1. A device for measuring the binding of a first partner in an interaction to a second partner in said interaction, said device comprising:

- 5 a) an opaque temperature-controlled chamber having a rotor therein, said rotor having at or near the periphery thereof at least one radially positioned transparent reaction well, said reaction well having on an upper surface thereof an aperture for the addition of reagents thereto, said reaction well further including on an internal surface thereof at the end closest the axis of said rotor at least one attachment zone for said second interaction partner;
- 10 b) a system for detecting light emitted or absorbed by said first interaction partner or an indicator molecule bound thereto; and
- c) means for controlling the temperature of said chamber and the operation of said rotor.

2. A method of measuring the binding of a first partner in an interaction to a second partner in said interaction, said method comprising the steps of:

- 15 a) delivering a quantity of second interaction partner to a reaction well of a device according to the first embodiment for attachment of said second interaction partner to an attachment zone of said reaction well;
- b) combining a quantity of first interaction partner with said second interaction partner in said reaction well and incubating said mixture at a temperature and for a time to allow
20 binding of said first interaction partner to said second interaction partner;
- c) rotating said device rotor at a speed which displaces the mixture formed in step (b) away from said attachment zone; and
- d) measuring the amount of said first interaction partner bound to said second interaction
25 partner via the fluorescence or absorbance of said first interaction partner or an indicator molecule bound thereto.